

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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| In re Continuation Application of: |) | |
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| Hyug Jin KWEON et al. |) | |
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| Application No.: To be assigned |) | |
| Continuation of Application No.: 10/128,439 |) | |
| Filed: April 24, 2002 |) | Group Art Unit: Unassigned |
| |) | |
| Filed: Concurrently Herewith |) | |
| |) | Examiner: Unassigned |
| Title: APPARATUS FOR MEASURING |) | |
| DISPENSING AMOUNT OF LIQUID |) | |
| CRYSTAL DROPS AND METHOD FOR |) | |
| MANUFACTURING LIQUID CRYSTAL |) | |
| DISPLAY DEVICE USING THE SAME |) | |

Commissioner for Patents
U.S. Patent and Trademark Office
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Customer Window
Crystal Plaza Two, Lobby, Room 1B03
Arlington, VA 22202

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicants bring to the attention of the Examiner the documents listed on the attached PTO-1449. This Information Disclosure Statement is being filed within three months of the filing date of the above-referenced continuation application, which is concurrently being filed herewith. The listed documents were previously cited in the co-pending parent Application No. 10/128,439, filed on April 24, 2002, upon which Applicants rely for the benefits provided in 35 U.S.C. § 120. Thus, under 37 C.F.R. § 1.98(d), copies of the listed documents are not being submitted herewith.

Applicants respectfully request that the Examiner consider the listed documents and evidence that consideration by making appropriate notations on the attached PTO-1449 form.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "Prior Art." If it should be determined that any of the listed documents do not constitute "Prior Art" under United States law, Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such document.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

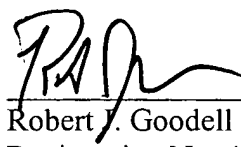
If there is any fee due in connection with the filing of this Information Disclosure Statement, please charge the fee to our Deposit Account No. 50-0310.

Respectfully submitted,

MORGAN, LEWIS & BOCKIUS LLP

Dated: January 26, 2004

By:



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| INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) PTO Form 1449 | | | | Attorney Docket No. 041501-5508-01 | | Continuation of Application No.: 10/128,439 | | | |
| | | | | Applicant(s): Hyug Jin KWEON et al. | | | | PAGE 1 of 10 | |
| | | | | Filing Date: January 26, 2004 | | Group Art Unit: Unassigned | | | |

| U.S. PATENT DOCUMENTS | | | | | | |
|-----------------------|--------------------|---------------|-----------------|-------|--------------|---------------|
| *Examiner Initial | Document Number | Date | Name | Class | Sub Class | Filing Date |
| | 4,094,058 | Jun. 13, 1978 | Yasutake et al. | 29 | 592 R | Jul. 23, 1976 |
| | 4,691,995 | Sep. 8, 1987 | Yamazaki et al. | 350 | 331 R | Jul. 15, 1986 |
| | 5,875,922 | Mar. 2, 1999 | Chastine et al. | 222 | 1 | Oct. 10, 1997 |
| | US 6,304,311 B1 | Oct. 16, 2001 | Egami et al. | 349 | 189 | Nov. 11, 1999 |
| | US 2001/0021000 A1 | Sep. 13, 2001 | Egami | 349 | 187 | Feb. 1, 2001 |

| FOREIGN PATENT DOCUMENTS | | | | | | | | |
|--------------------------|--------------------|---------------|--------------------|-------|--------------|--------------------|----|--|
| | Document Number | Date | Country | Class | Sub Class | <u>Translation</u> | | |
| | | | | | | YES | NO | |
| | KR 2000-0035302-A | Jun. 26, 2000 | Korea (w/abstract) | | | | X | |
| | JP 5-154923-A | Jun. 22, 1993 | Japan (w/abstract) | | | | X | |
| | JP 6-313870-A | Nov. 8, 1994 | Japan (w/abstract) | | | | X | |
| | JP 6-235925-A | Aug. 23, 1994 | Japan (w/abstract) | | | | X | |
| | JP 7-84268-A | Mar. 31, 1995 | Japan (w/abstract) | | | | X | |
| | JP 8-101395-A | Apr. 16, 1996 | Japan (w/abstract) | | | | X | |
| | JP 9-61829-A | Mar. 7, 1997 | Japan (w/abstract) | | | | X | |
| | JP 10-177178-A | Jun. 30, 1998 | Japan (w/abstract) | | | | X | |
| | JP 10-333157-A | Dec. 18, 1998 | Japan (w/abstract) | | | | X | |
| | JP 10-333159-A | Dec. 18, 1998 | Japan (w/abstract) | | | | X | |
| | JP 11-133438-A | May 21, 1999 | Japan (w/abstract) | | | | X | |
| | JP 11-142864-A | May 28, 1999 | Japan (w/abstract) | | | | X | |
| | JP 11-248930-A | Sep. 17, 1999 | Japan (w/abstract) | | | | X | |
| | JP 11-326922-A | Nov. 26, 1999 | Japan (w/abstract) | | | | X | |
| | JP 2000-2879-A | Jan. 7, 2000 | Japan (w/abstract) | | | | X | |

| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | |
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| Examiner | Date Considered |
| Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

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|--|--|--------------------|---------------|---------------------------------------|-------|--|------------------------------|
| INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) PTO Form 1449 | | | | Attorney Docket No. 041501-5508-01 | | Continuation of Application No.: 10/128,439 | |
| | | | | Applicant(s): Hyug Jin KWEON et al. | | | |
| | | | | Filing Date: January 26, 2004 | | Group Art Unit: Unassigned | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| *Examiner Initial | | Document Number | Date | Name | Class | Sub Class | Filing Date |
| | | | | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | | Document Number | Date | Country | Class | Sub Class | <u>Translation</u> YES NO |
| | | JP 2000-56311-A | Feb. 25, 2000 | Japan (w/abstract) | | | X |
| | | JP 2000-66165-A | Mar. 3, 2000 | Japan (w/abstract) | | | X |
| | | JP 2000-137235-A | May 16, 2000 | Japan (w/abstract) | | | X |
| | | JP 2000-147528-A | May 26, 2000 | Japan (w/abstract) | | | X |
| | | JP 2000-193988-A | Jul. 14, 2000 | Japan (w/abstract) | | | X |
| | | JP 2000-241824-A | Sep. 8, 2000 | Japan (w/abstract) | | | X |
| | | JP 2000-284295-A | Oct. 13, 2000 | Japan (w/abstract) | | | X |
| | | JP 2000-292799-A | Oct. 20, 2000 | Japan (w/abstract) | | | X |
| | | JP 2000-310759-A | Nov. 7, 2000 | Japan (w/abstract) | | | X |
| | | JP 2000-310784-A | Nov. 7, 2000 | Japan (w/abstract) | | | X |
| | | JP 2000-338501-A | Dec. 8, 2000 | Japan (w/abstract) | | | X |
| | | JP 2001-5401-A | Jan. 12, 2001 | Japan (w/abstract) | | | X |
| | | JP 2001-5405-A | Jan. 12, 2001 | Japan (w/abstract) | | | X |
| | | JP 2001-13506-A | Jan. 19, 2001 | Japan (w/abstract) | | | X |
| | | JP 2001-51284-A | Feb. 23, 2001 | Japan (w/abstract) | | | X |
| | | JP 2001-33793-A | Feb. 9, 2001 | Japan (w/abstract) | | | X |
| | | JP 2001-42341-A | Feb. 16, 2001 | Japan (w/abstract) | | | X |
| | | JP 2001-66615-A | Mar. 16, 2001 | Japan (w/abstract) | | | X |
| | | JP 2001-91727-A | Apr. 6, 2001 | Japan (w/abstract) | | | X |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | |
| | | | | | | | |
| Examiner | | | | Date Considered | | | |
| Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | | | | | | |

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|--|--|--------------------|---------------|---------------------------------------|-------|--|--------------------------------|---------------------|--|
| INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) PTO Form 1449 | | | | Attorney Docket No. 041501-5508-01 | | Continuation of Application No.: 10/128,439 | | | |
| | | | | Applicant(s): Hyug Jin KWEON et al. | | | | PAGE 3 of 10 | |
| | | | | Filing Date: January 26, 2004 | | Group Art Unit: Unassigned | | | |
| U.S. PATENT DOCUMENTS | | | | | | | | | |
| *Examiner Initial | | Document Number | Date | Name | Class | Sub Class | Filing Date | | |
| | | | | | | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | | |
| | | Document Number | Date | Country | Class | Sub Class | Translation YES NO | | |
| | | JP 2001-117109-A | Apr. 27, 2001 | Japan (w/abstract) | | | X | | |
| | | JP 2001-133745-A | May 18, 2001 | Japan (w/abstract) | | | X | | |
| | | JP 2001-133799-A | May 18, 2001 | Japan (w/abstract) | | | X | | |
| | | JP 2001-166272-A | Jun. 22, 2001 | Japan (w/abstract) | | | X | | |
| | | JP 2001-166310-A | Jun. 22, 2001 | Japan (w/abstract) | | | X | | |
| | | JP 2001-183683-A | Jul. 6, 2001 | Japan (w/abstract) | | | X | | |
| | | JP 2001-209052-A | Aug. 3, 2001 | Japan (w/abstract) | | | X | | |
| | | JP 2001-201750-A | Jul. 27, 2001 | Japan (w/abstract) | | | X | | |
| | | JP 2001-209060-A | Aug. 3, 2001 | Japan (w/abstract) | | | X | | |
| | | JP 2001-215459-A | Aug. 10, 2001 | Japan (w/abstract) | | | X | | |
| | | JP 2001-222017-A | Aug. 27, 2001 | Japan (w/abstract) | | | X | | |
| | | JP 2001-235758-A | Aug. 31, 2001 | Japan (w/abstract) | | | X | | |
| | | JP 2001-272640-A | Oct. 5, 2001 | Japan (w/abstract) | | | X | | |
| | | JP 2001-282126-A | Oct. 12, 2001 | Japan (w/abstract) | | | X | | |
| | | JP 2001-281678-A | Oct. 10, 2001 | Japan (w/abstract) | | | X | | |
| | | JP 2001-281675-A | Oct. 10, 2001 | Japan (w/abstract) | | | X | | |
| | | JP 2001-305563-A | Oct. 31, 2001 | Japan (w/abstract) | | | X | | |
| | | JP 2001-330837-A | Nov. 30, 2001 | Japan (w/abstract) | | | X | | |
| | | JP 2001-356353-A | Dec. 26, 2001 | Japan (w/abstract) | | | X | | |
| | | EP 1 003 066 A1 | May 24, 2000 | Europe | | | | | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | | | |
| | | | | | | | | | |
| Examiner | | | | Date Considered | | | | | |
| Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | | | | | | | | |

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|--|--------------------|---------------|--------------------|---------------------------------------|--------------|--|---|---------------------|--|
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| | | | | Applicant(s): Hyug Jin KWEON et al. | | | | PAGE 4 of 10 | |
| | | | | Filing Date: January 26, 2004 | | Group Art Unit: Unassigned | | | |
| U.S. PATENT DOCUMENTS | | | | | | | | | |
| *Examiner Initial | Document Number | Date | Name | Class | Sub Class | Filing Date | | | |
| | 5,247,377 | Sep. 21, 1993 | Omeis et al. | 359 | 76 | Jul. 24, 1989 | | | |
| | 5,511,591 | Apr. 30, 1996 | Abe | 141 | 7 | Apr. 10, 1995 | | | |
| | 5,642,214 | Jun. 24, 1997 | Ishii et al. | 349 | 96 | Jul. 5, 1994 | | | |
| | 5,742,370 | Apr. 21, 1998 | Kim et al. | 349 | 124 | Feb. 26, 1997 | | | |
| | 6,011,609 | Jan. 4, 2000 | Kato et al. | 349 | 190 | Oct. 2, 1997 | | | |
| | 6,016,178 | Jan. 18, 2000 | Kataoka et al. | 349 | 117 | Mar. 14, 1997 | | | |
| | 6,055,035 | Apr. 25, 2000 | Von Gutfeld et al. | 349 | 187 | May 11, 1998 | | | |
| | 6,163,357 | Dec. 19, 2000 | Nakamura | 349 | 155 | Sep. 26, 1997 | | | |
| | 6,226,067 B1 | May 1, 2001 | Nishiguchi et al. | 349 | 155 | Sep. 30, 1998 | | | |
| | 6,304,306 B1 | Oct. 16, 2001 | Shiomi et al. | 349 | 88 | Apr. 20, 1998 | | | |
| | 6,414,733 B1 | Jul. 2, 2002 | Ishikawa et al. | 349 | 110 | Feb. 7, 2000 | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | | |
| | Document Number | Date | Country | Class | Sub Class | Translation YES NO | | | |
| | JP 51-065656 | June 7, 1976 | Japan (w/abstract) | | | | X | | |
| | JP 59-057221 | April 2, 1984 | Japan (w/abstract) | | | | X | | |
| | JP 59-195222 | Nov. 6, 1984 | Japan (w/abstract) | | | | X | | |
| | JP 60-111221 | Jun. 17, 1985 | Japan (w/abstract) | | | | X | | |
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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | | | |
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|--|--------------------|------------|-------------------|---------------------------------------|--------------|--|--|---------------------|--|
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| | | | | Applicant(s): Hyug Jin KWEON et al. | | | | PAGE 5 of 10 | |
| | | | | Filing Date: January 26, 2004 | | Group Art Unit: Unassigned | | | |
| U.S. PATENT DOCUMENTS | | | | | | | | | |
| *Examiner Initial | Document Number | Date | Name | Class | Sub Class | Filing Date | | | |
| | 3,978,580 | 09/07/1976 | Leupp, et al. | | | 09/27/1974 | | | |
| | 4,653,864 | 03/31/1987 | Baron, et al. | | | 02/26/1986 | | | |
| | 4,775,225 | 10/04/1988 | Tsuboyama, et al. | | | 05/14/1986 | | | |
| | 5,263,888 | 11/23/1993 | Ishihara, et al. | | | 02/11/1993 | | | |
| | 5,379,139 | 01/03/1995 | Sato, et al. | | | 07/06/1992 | | | |
| | 5,406,989 | 04/18/1995 | Abe | | | 10/12/1993 | | | |
| | 5,499,128 | 03/12/1996 | Hasegawa, et al. | | | 03/15/1994 | | | |
| | 5,507,323 | 04/16/1996 | Abe | | | 11/22/1994 | | | |
| | 5,539,545 | 07/23/1996 | Shimizu, et al. | | | 05/17/1994 | | | |
| | 5,548,429 | 08/20/1996 | Tsujita | | | 06/14/1994 | | | |
| | 5,680,189 | 10/21/1997 | Shimizu, et al. | | | 06/07/1995 | | | |
| | 5,757,451 | 05/26/1998 | Miyazaki, et al. | | | 09/09/1996 | | | |
| | 5,852,484 | 12/22/1998 | Inoue, et al. | | | 05/27/1997 | | | |
| | 5,854,664 | 12/29/1998 | Inoue, et al. | | | 09/25/1995 | | | |
| | 5,861,932 | 01/19/1999 | Inata, et al. | | | 03/30/1998 | | | |
| | 5,952,676 | 09/14/1999 | Sato, et al. | | | 06/06/1997 | | | |
| | 5,956,112 | 09/21/1999 | Fujimori, et al. | | | 10/01/1996 | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | | |
| | Document Number | Date | Country | Class | Sub Class | Translation YES NO | | | |
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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | | | |
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| | | | | Filing Date: January 26, 2004 | | Group Art Unit: Unassigned | | | |
| U.S. PATENT DOCUMENTS | | | | | | | | | |
| *Examiner Initial | Document Number | Date | Name | Class | Sub Class | Filing Date | | | |
| | 6,001,203 | 12/14/1999 | Yamada, et al. | | | 12/10/1997 | | | |
| | 6,016,181 | 01/18/2000 | Shimada | | | 01/21/1997 | | | |
| | 6,219,126 | 04/17/2001 | Von Gutfeld | | | 11/20/1998 | | | |
| | 6,236,445 | 05/22/2001 | Foschaar, et al. | | | 02/22/1996 | | | |
| | 6,337,730 | 01/08/2002 | Ozaki, et al. | | | 06/01/1999 | | | |
| | | | | | | | | | |
| | 2003/0063251 | 04/2003 | Murata et al. | | | | | | |
| | 2001/0026348 | 10/2001 | Murata et al. | | | | | | |
| | | | | | | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | | |
| | Document Number | Date | Country | Class | Sub Class | Translation YES NO | | | |
| | 57-38414 | 03/03/1982 | Japan | | | Abstract | | | |
| | 57-88428 | 06/02/1982 | Japan | | | Abstract | | | |
| | 58-27126 | 02/17/1983 | Japan | | | Abstract | | | |
| | 60-164723 | 08/27/1985 | Japan | | | Abstract | | | |
| | 60-217343 | 10/30/1985 | Japan | | | Abstract | | | |
| | 61-7822 | 01/14/1986 | Japan | | | Abstract | | | |
| | 61-55625 | 03/20/1986 | Japan | | | Abstract | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | | | |
| | | | | | | | | | |
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| U.S. PATENT DOCUMENTS | | | | | | | | | |
| *Examiner Initial | Document Number | Date | Name | Class | Sub Class | Filing Date | | | |
| | | | | | | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | | |
| | Document Number | Date | Country | Class | Sub Class | <u>Translation</u> YES NO | | | |
| | 62-89025 | 04/23/1987 | Japan | | | Abstract | | | |
| | 62-90622 | 04/25/1987 | Japan | | | Abstract | | | |
| | 62-205319 | 09/09/1987 | Japan | | | Abstract | | | |
| | 63-109413 | 05/14/1988 | Japan | | | Abstract | | | |
| | 63-110425 | 05/14/1988 | Japan | | | Abstract | | | |
| | 63-128315 | 05/31/1988 | Japan | | | Abstract | | | |
| | 63-311233 | 12/20/1988 | Japan | | | Abstract | | | |
| | 5-127179 | 05/25/1993 | Japan | | | Abstract | | | |
| | 5-265011 | 10/15/1993 | Japan | | | Abstract | | | |
| | 5-281557 | 10/29/1993 | Japan | | | Abstract | | | |
| | 5-281562 | 10/29/1993 | Japan | | | Abstract | | | |
| | 6-51256 | 02/25/1994 | Japan | | | Abstract | | | |
| | 6-148657 | 05/27/1994 | Japan | | | Abstract | | | |
| | 6-160871 | 06/07/1994 | Japan | | | Abstract | | | |
| | 6-265915 | 09/22/1994 | Japan | | | Abstract | | | |
| | 7-128674 | 05/19/1995 | Japan | | | Abstract | | | |
| | 7-181507 | 07/21/1995 | Japan | | | Abstract | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | | | |
| | | | | | | | | | |
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| U.S. PATENT DOCUMENTS | | | | | | | | | |
| *Examiner Initial | | Document Number | Date | Name | Class | Sub Class | Filing Date | | |
| | | | | | | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | | |
| | | Document Number | Date | Country | Class | Sub Class | <u>Translation</u> YES NO | | |
| | | 8-95066 | 04/12/1996 | Japan | | | Abstract | | |
| | | 8-106101 | 04/23/1996 | Japan | | | Abstract | | |
| | | 8-171094 | 07/02/1996 | Japan | | | Abstract | | |
| | | 8-190099 | 07/23/1996 | Japan | | | Abstract | | |
| | | 8-240807 | 09/17/1996 | Japan | | | Abstract | | |
| | | 9-5762 | 01/10/1997 | Japan | | | Abstract | | |
| | | 9-26578 | 01/28/1997 | Japan | | | Abstract | | |
| | | 9-73075 | 03/18/1997 | Japan | | | Abstract | | |
| | | 9-73096 | 03/18/1997 | Japan | | | Abstract | | |
| | | 9-127528 | 05/16/1997 | Japan | | | Abstract | | |
| | | 9-230357 | 09/05/1997 | Japan | | | Abstract | | |
| | | 9-281511 | 10/31/1997 | Japan | | | Abstract | | |
| | | 9-311340 | 12/02/1997 | Japan | | | Abstract | | |
| | | 10-123537 | 05/15/1998 | Japan | | | Abstract | | |
| | | 10-123538 | 05/15/1998 | Japan | | | Abstract | | |
| | | 10-142616 | 05/29/1998 | Japan | | | Abstract | | |
| | | 10-221700 | 08/21/1998 | Japan | | | Abstract | | |
| | | 10-282512 | 10/23/1998 | Japan | | | Abstract | | |
| | | | | | | | | | |
| | | | | | | | | | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | | | |
| | | | | | | | | | |
| Examiner | | | | Date Considered | | | | | |
| Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | | | | | | | | |

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|---|--|--------------------|------------|--|-------|--|--------------------------------|--------------|--|
| INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) PTO Form 1449 | | | | Attorney Docket No. 041501-5508-01 | | Continuation of Application No.: 10/128,439 | | | |
| | | | | Applicant(s): Hyug Jin KWEON et al. | | | | PAGE 9 of 10 | |
| | | | | Filing Date: January 26, 2004 | | Group Art Unit: Unassigned | | | |
| U.S. PATENT DOCUMENTS | | | | | | | | | |
| *Examiner Initial | | Document Number | Date | Name | Class | Sub Class | Filing Date | | |
| | | | | | | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | | |
| | | Document Number | Date | Country | Class | Sub Class | <u>Translation</u> YES NO | | |
| | | 11-14953 | 01/22/1999 | Japan | | | Abstract | | |
| | | 11-38424 | 02/12/1999 | Japan | | | Abstract | | |
| | | 11-64811 | 03/05/1999 | Japan | | | Abstract | | |
| | | 11-109388 | 04/23/1999 | Japan | | | Abstract | | |
| | | 11-174477 | 07/02/1999 | Japan | | | Abstract | | |
| | | 11-212045 | 08/06/1999 | Japan | | | Abstract | | |
| | | 11-344714 | 12/14/1999 | Japan | | | Abstract | | |
| | | 2000-29035 | 01/28/2000 | Japan | | | Abstract | | |
| | | 2001-117105 | 04/27/2001 | Japan | | | Abstract | | |
| | | 2001-133794 | 05/18/2001 | Japan | | | Abstract | | |
| | | 2001-142074 | 05/25/2001 | Japan | | | Abstract | | |
| | | 2001-147437 | 05/29/2001 | Japan | | | Abstract | | |
| | | 2001-154211 | 06/08/2001 | Japan | | | Abstract | | |
| | | 2001-255542 | 09/21/2001 | Japan | | | Abstract | | |
| | | 2001-264782 | 09/26/2001 | Japan | | | Abstract | | |
| | | 2001-330840 | 11/30/2001 | Japan | | | Abstract | | |
| | | 2001-356354 | 12/26/2001 | Japan | | | Abstract | | |
| | | 2002-14360 | 01/18/2002 | Japan | | | Abstract | | |
| | | | | | | | | | |
| | | | | | | | | | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | | | |
| | | | | | | | | | |
| Examiner | | | | Date Considered | | | | | |
| Examiner: | | | | Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | | | | |

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|---|--|--------------------|------------|---------------------------------------|-------|--|--------------------------------|---------------|--|
| INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) PTO Form 1449 | | | | Attorney Docket No. 041501-5508-01 | | Continuation of Application No.: 10/128,439 | | | |
| | | | | Applicant(s): Hyug Jin KWEON et al. | | | | PAGE 10 of 10 | |
| | | | | Filing Date: January 26, 2004 | | Group Art Unit: Unassigned | | | |
| U.S. PATENT DOCUMENTS | | | | | | | | | |
| *Examiner Initial | | Document Number | Date | Name | Class | Sub Class | Filing Date | | |
| | | | | | | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | | |
| | | Document Number | Date | Country | Class | Sub Class | <u>Translation</u> YES NO | | |
| | | 2002-23176 | 01/23/2002 | Japan | | | Abstract | | |
| | | 2002-49045 | 02/15/2002 | Japan | | | Abstract | | |
| | | 2002-82340 | 03/22/2002 | Japan | | | Abstract | | |
| | | 2002-90759 | 03/27/2002 | Japan | | | Abstract | | |
| | | 2002-90760 | 03/27/2002 | Japan | | | Abstract | | |
| | | 2002-107740 | 04/10/2002 | Japan | | | Abstract | | |
| | | 2002-122872 | 04/26/2002 | Japan | | | Abstract | | |
| | | 2002-122873 | 04/26/2002 | Japan | | | Abstract | | |
| | | 2002-139734 | 05/17/2002 | Japan | | | Abstract | | |
| | | 2002-202512 | 07/19/2002 | Japan | | | Abstract | | |
| | | 2002-202514 | 07/19/2002 | Japan | | | Abstract | | |
| | | 2002-214626 | 07/31/2002 | Japan | | | Abstract | | |
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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | | | |
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| Examiner | | | | Date Considered | | | | | |
| Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | | | | | | | | |